COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
www.deq.virginia.gov

Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

November 27, 2013

Mr. Jarrod Goodman
Complex Manager
Tyson Foods, Inc.
PO Box 8
Temperanceville, Virginia 23442

Location: Accomack County
Registration No.: 40333
AFS Id. No.: 51-001-00002

Dear Mr. Goodman:

Attached is a renewal permit to operate your Tyson Farms, Inc. - Temperanceville Complex facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution. This permit incorporates provisions from the NSR permit dated September 17, 2013.

The permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all permit conditions carefully.

In evaluating the application and arriving at a final decision to issue this permit, the Department deemed the application complete on September 17, 2013, and solicited written public comments by placing a newspaper advertisement in the Eastern Shore News on Saturday, October 12, 2013. The thirty day comment period (provided for in 9 VAC 5-80-270) expired on Tuesday, November 12, 2013 with no comments having been received in this office.

This approval to operate does not relieve Tyson Foods, Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
PO Box 1105
Richmond, VA 23218-1105

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Rule 2A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Ms. Yen Bao by phone at (757) 518-2195 or by e-mail at yen.bao@deq.virginia.gov.

Sincerely,

Troy D. Breathwaite
Regional Air Permits Manager

TDB/YTB/40333_017_13_FOP_T5Renewal_coverlet.doc

Attachment: Permit

cc: Manager, Data Analysis (electronic file submission)
Manager/Inspector, Air Compliance
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III (electronic file submission)

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Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Tyson Foods, Inc.
Facility Name:	Tyson Farms, Inc.
Facility Location:	11224 Lankford Highway Temperanceville, Virginia 23442
Registration Number:	40333
Permit Number:	TRO-40333

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act (Pages 3-47)
State Only Enforceable Requirements (Pages 47-49)

November 27, 2013
Effective Date

November 26, 2018
Expiration Date

Troy D. Breathwaite, Regional Air Permits Manager

November 27, 2013
Signature Date

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Facility Information

Permittee
Tyson Foods, Inc.
PO Box 2020
Springdale, Arkansas 72765-2020

Responsible Official
Jarrod Goodman
Complex Manager

Facility
Tyson Farms, Inc.
PO Box 8
11224 Lankford Highway
Temperanceville, Virginia 23442

Contact Person
David Redinger
Environmental Manager
(757) 824-3471 ext. 274

County-Plant Identification Number: 51-001-00002

Facility Description:
NAICS 311615- Poultry Processing
NAICS 311613- Rendering and Meat Byproduct Processing
NAICS 11234- Poultry Hatchery

The manufacturing operations consist of processing live chickens into marketable commodities. This is accomplished through slaughtering, de-feathering, evisceration, chilling, and final packaging and shipping.

The protein conversion operations consist of rendering inedible poultry offal, parts, blood, and feather into useable products, which include poultry meat meal, poultry fat, and feather meal.

Main emissions are from boilers and the rendering processes. The facility is Title V major for NOx and SO_2, and PSD size for SO_2.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device ID	Applicable Permit Date
Fuel Burning Equipment					
PB1	PB1V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1971, MACT Subpart JJJJJJ	14.7 million Btu/hr	NA	9/17/13 NSR
PB2	PB2V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1967, MACT Subpart JJJJJJ	6.3 million Btu/hr	NA	9/17/13 NSR
PB3	PB3V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1969, MACT Subpart JJJJJJ	14.7 million Btu/hr	NA	9/17/13 NSR
RB1	RB1V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1977, MACT Subpart JJJJJJ	29.3 million Btu/hr	NA	9/17/13 NSR
RB2	RB2V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1972, MACT Subpart JJJJJJ	29.3 million Btu/hr	NA	9/17/13 NSR
RB3	RB3V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1977, MACT Subpart JJJJJJ	29.3 million Btu/hr	NA	9/17/13 NSR
RB4	RB4V	No. 6 Fuel Oil Boiler, Cleaver Brooks, installed 1993, NSPS Subpart Dc, and MACT Subpart JJJJJJ	29.3 million Btu/hr	NA	9/17/13 NSR

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device ID	Applicable Permit Date
PH1	PH1V	Two Propane Quikwater Hot Water Heaters, installed 1999, NSPS Subpart Dc (recordkeeping only)	12.5 million Btu/hr each	NA	9/17/13 NSR (4/15/1999 NSR Exemption letter)
PG1	PG1V	Diesel-fired engine generator set, Katolight Model D1000FPZ4, 2001, MACT Subpart ZZZZ, emergency use and enrolled in PJM Emergency Load Response Program	1,100 KW	NA	9/17/13 NSR, (3/22/10 NSR Exemption letter)
PG2	PG2V	Diesel-fueled emergency generator, Katolight Model SD125FJ4, 8/2005, MACT Subpart ZZZZ	125 kW	NA	9/17/13 NSR, (7/11/05 NSR Exemption letter)
PG3	PG3V	Diesel-fueled emergency generator, Perkins Model PDFP L4YN, 1/1999, MACT Subpart ZZZZ	67 hp	NA	9/17/13 NSR, (7/11/05 NSR Exemption letter)
Rendering Process- Poultry Meat and Fat Rendering					
RE-01 and RE-02	EP-TP-CE-03	Cooker feed bins (2), conveyors, 2004	60,000 lbs/hr	CE-03	9/17/13 NSR
RE-03	EP-TP-CE-03	Metal Detector, 2010	60,000 lbs/hr	CE-03	9/17/13 NSR
RE-04	EP-TP-CE-03	Steam Preheater, Haarslev RCD 1533, 1996	60,000 lbs/hr	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-05	EP-TP-CE-03	Rotor Drum, LYCO, 48'x72" single drum, 2004	60,000 lbs/hr	CE-03	9/17/13 NSR
RE-06	EP-TP-CE-03	Twin Screw Press Haarslev MS-64FK, 2004	60,000 lbs/hr	CE-01/CE-02/ CE-03	9/17/13 NSR

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device ID	Applicable Permit Date
RE-07	EP-TP-CE-03	Pet Food Cooker, Haarslev TST100, 1992	60,000 lbs/hr	CE-01/CE-02/ CE-03 via cyclone RE-07A and condenser RE-7B	9/17/13 NSR
RE-07A	EP-TP-CE-03	Meat Cooker Cyclone, Haarslev, 1992	35,000 lb/hr	CE-01/CE-02/ CE-03 via condenser RE-07B	9/17/13 NSR
RE-07B	EP-TP-CE-03	Meat Cooker Condenser, CA Technologies, 2007	35,000 lb/hr	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-08	EP-TP-CE-03	Perculator, Haarslev, 1992	60,000 lbs/hr	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-09 and RE-10	EP-TP-CE-03	Expeller Presses (2), Haarslev SBH Expeller 300, 1992	12,000 lbs/hr each	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-11	EP-TP-CE-03	Hammermill, BLISS IER-3820, 2002	12,000 lbs/hr each	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-12 A-C	EP-TP-CE-03	Rotex Screens (3) (vents to aspirator RE-12D), ROTEX 321A, 1992	12,000 lbs/hr each	CE-01/CE-02/ CE-03 via Aspirator RE-12D	9/17/13 NSR
RE-12D	EP-TP-CE-03	Aspirator	NA	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-16-18	NA	Meat Meal Silos (3), HARVESTOR, #1-3:1970, #4-5:2009, #6:1994 (vent to atmosphere)	12,000 lbs/hr each	NA	9/17/13 NSR
RE-19	EP-TP-CE-03	Fat Sweco Screen, Sweco 60", 1996	10,000 lbs/hr	CE-03	9/17/13 NSR
RE-20	EP-TP-CE-03	Fat Centrifuge Feed Tank, 500 gallon, 1992	10,000 lbs/hr	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-21	EP-TP-CE-03	Fat Centrifuge, Bird 34x38, 1992	10,000 lbs/hr	CE-01/CE-02/ CE-03	9/17/13 NSR
RE-22	EP-TP-CE-03	Inside Fat Storage Tank, 500 gallon, 1992	10,000 lbs/hr	CE-01/CE-02/ CE-03	9/17/13 NSR

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device ID	Applicable Permit Date
RE-23-26	NA	Outside Fat Storage Tanks (vent to atmosphere)	NA	NA	9/17/13 NSR
RE-27	EP-TP-CE-03	Waste heat evaporator, Haarslev 25K, 1992	NA	CE-01/CE-02/ CE-03 via condenser RE-07B	9/17/13 NSR
RE-28	NA	Meat Meal Truck Load-out, Conveyors, 1992 (vent to atmosphere)	40,000 lbs/hr	NA	9/17/13 NSR
Rendering Process- Feather and Blood Rendering					
RE-29	EP-TP-CE-04	Raw feather dump to floor, 1992	NA	CE-04	9/17/13 NSR
RE-30-32	EP-TP-CE-03 and EP-TP-CE-04	Cookers (3), Anco 5x16, 1992	10,000 lbs/batch each	CE-04 for room air low intensity odor; and CE-01/CE-02/ CE-03 for cooker high intensity odor via hydrolyser cyclone RE-47 and feather condenser RE-49	9/17/13 NSR
RE-50 and RE-51	EP-TP-CE-03 and EP-TP-CE-04	Cookers (2), Anco 1700, to be installed to replace three (3) existing cookers RE-33-35	5,714 lbs/hr each		
RE-36	EP-TP-CE-04	Feather Dump Pan, Conveyor, 2009	30,000 lbs/hr	CE-04	9/17/13 NSR
RE-37	EP-TP-CE-04	Rotex Screen, 48", 2012	20,000 lbs/hr	CE-04	9/17/13 NSR (1/22/13NSR Exemption letter)
RE-38 and RE-39	EP-TP-CE-03	Feather Dryers A/B, Haarslev, 1996	12,500 lbs/hr each	CE-01/CE-02/ CE-03 via feather cyclones RE-38A and RE-39B, and feather condenser RE-49	9/17/13 NSR

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device ID	Applicable Permit Date
RE-40	EP-TP-CE-04	Feather Hammermill, Bliss 3820, 2004	20,000 lbs/hr	CE-04	9/17/13 NSR
RE-41	EP-TP-CE-04	Feather Rotex Screen, 2004	12,000 lbs/hr	CE-04	9/17/13 NSR
RE-42	NA	Feather Silo, Harvestor 60', 2004 (vent to atmosphere)	12,000 lbs/hr	NA	9/17/13 NSR
RE-43	NA	Feather Meal Truck Loadout, Conveyors, 2004 (vent to atmosphere)	50,000 lbs/hr	NA	9/17/13 NSR
RE-44	EP-TP-CE-04	Blood Receiving Tank, 6,000 gallon, 2004	8,000 lbs/hr	CE-04	9/17/13 NSR
RE-45	EP-TP-CE-03 and EP-TP-CE-04	Blood Coagulator, Sparge Tube, 2004	8,000 lbs/hr	CE-04 for room air low intensity odor; CE-01/CE-02/ CE-03 for high intensity odor via feather condenser RE-49	9/17/13 NSR
RE-46	EP-TP-CE-03 and EP-TP-CE-04	Blood Centrifuge, Bird 18x42, 2009	8,000 lbs/hr	CE-04 for room air low intensity odor; CE-01/CE-02/ CE-03 for high intensity odor via feather condenser RE-49	9/17/13 NSR
RE-47	EP-TP-CE-03	Hydrolyser Cyclone, CA Technologies, 2007	20,000 lb/hr	CE-01/CE-02/ CE-03 via feather condenser RE-49	9/17/13 NSR

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device ID	Applicable Permit Date
RE-38A and 39B	EP-TP-CE-03	Feather Dryer Cyclones A/B (2), CA Technologies 2007	20,000 lb/hr	CE-01/CE-02/ CE-03 via feather condenser RE-49	9/17/13 NSR
RE-49	EP-TP-CE-03	Feather Condenser, Millpoint 1992	30,000 lb/hr	CE-01/CE-02/ CE-03	9/17/13 NSR

Pollution Control Device (PCD) ID No.	PCD Description*	Pollutant Controlled	Applicable Permit Date
CE-01	IES venturi, 20,000 cfm, using water, 95% control efficiency, 2011	Odor, PM	9/17/13 NSR
CE-02	IES packed bed scrubber, 30,000 cfm, 95% control efficiency, using water and ClO2, or an DEQ-approved equivalent solution, 2011	Odor, PM	9/17/13 NSR
CE-03	IES packed bed scrubber, 100,000 cfm, 95% control efficiency, using water and ClO2, or an DEQ-approved equivalent solution, 2011	Odor, PM	9/17/13 NSR
CE-04	IES packed bed scrubber, 100,000 cfm, 95% control efficiency, using water and ClO2, or an DEQ-approved equivalent solution, 2011	Odor, PM	9/17/13 NSR

*The Size/Rated capacity and PCD efficiency are provided for informational purposes only, and is not an applicable requirement.

Fuel Burning Equipment Requirements Using Fuel Oil or Propane – (Emission Units PB1, PB2, PB3, RB1, RB2, RB3, RB4, PH1, PG1, PG2, and PG3)

1. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, RB4, and PH1) - Limitations** - The approved fuels for the units are as shown below:

ID#	Approved Fuels	Fuel Sulfur Content per Shipment
RB4	Residual oil	0.5%
PB1, PB2, PB3, RB1, RB2, RB3	Residual oil	2.0%
PH1	Propane	NA

The residual oil shall meet the specifications for fuel oil numbers 4, 5, or 6 under the American Society for Testing and Materials, ASTM D396 "Standard Specification for Fuel Oils." A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110 and Conditions 21 and 23 of 9/17/13 NSR Permit)

2. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Limitations** - The seven boilers, combined, shall consume no more than 1,500,000 gallons of the low sulfur (0.5%) residual oil per year, and the six boilers (Unit Ref. Nos. RB1, RB2, RB3, PB1, PB2 and PB3), combined, shall consume no more than 2,598,428 gallons of the high sulfur (2.0%) residual oil per year, each calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 22 of 9/17/13 NSR Permit)

3. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Limitations** - The permittee shall obtain a certification from the fuel supplier, including sampling and analysis representative of each shipment of residual oil. Each fuel supplier certification shall include the following:

   a. The name of the fuel supplier,

   b. The date on which the residual oil was received,

   c. The volume of residual oil delivered in the shipment,

   d. The sulfur content of the residual oil,

e. A statement that the residual oil complies with the American Society for Testing and Materials specifications for numbers 4, 5, or 6 fuel oil,

f. Documentation of sampling of the residual oil indicating the location of the residual oil when the sample was drawn, and

g. The method used to determine the sulfur content of the residual oil.

(9 VAC 5-80-110 and Condition 24 of 9/17/13 NSR Permit)

4. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Limitations** - Emissions from the operation of all seven boilers, combined, when burning residual fuel shall not exceed the limits specified below. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.

Particulate Matter	21.2 lbs/hr	34.1 tons/yr
PM-10	19.1 lbs/hr	29.7 tons/yr
Sulfur Dioxide	280.2 lbs/hr	466.9 tons/yr
Nitrogen Oxides (as NO2)	56.7 lbs/hr	112.8 tons/yr
Carbon Monoxide	5.2 lbs/hr	10.3 tons/yr
Volatile Organic Compounds	0.3 lbs/hr	0.6 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 1-3, 5-7, 9, 15, 23, 27, and 33.

(9 VAC 5-80-110 and Condition 26 of 9/17/13 NSR Permit)

5. **Fuel Burning Equipment Requirements – (Emission unit RB4) - Limitations** - Visible emissions from boiler RB4 shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 27 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, or malfunction.

(9 VAC 5-80-110 and Condition 27 of 9/17/13 NSR Permit)

6. **Fuel Burning Equipment Requirements – (Emission units PB1, RB1, RB2, and RB3) - Limitations** - Visible emissions from boilers PB1, RB1, RB2 and RB3 shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, or malfunction.

(9 VAC 5-80-110 and Condition 28 of 9/17/13 NSR Permit)

7. **Fuel Burning Equipment Requirements – (Emission units PB2 and PB3) - Limitations** - Visible emissions from boilers PB2 and PB3 shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).

   (9 VAC 5-80-110 and Condition 29 of 9/17/13 NSR Permit)

8. **Fuel Burning Equipment Requirements – (Emission unit PH1) – Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:

   a. Monthly usage of propane by heaters PH1.

   These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

   (9 VAC 5-80-110 and 40 CFR 60.48c(g))

9. **Fuel Burning Equipment Requirements – (Emission unit RB4) – Reporting** - The permittee shall submit semi-annual fuel quality reports for the low-sulfur (0.5% sulfur content) residual oil for boiler RB4 to the Tidewater Regional Office within 30 days after the end of each semi-annual period. If no shipments of the low-sulfur residual oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period. If low-sulfur residual oil was received during the semi-annual period, the reports shall include:

   a. The dates included in the semi-annual period,

   b. Copies of all fuel supplier certifications for all shipments of low-sulfur residual oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 3 for each shipment of low-sulfur residual oil, and

   c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the low-sulfur residual oil burned at the facility.

   (9 VAC 5-80-110 and Condition 47 of 9/17/13 NSR Permit)

10. **Fuel Burning Equipment Requirements – (Emission unit PG1) – Limitations** - The emergency generator (PG1) is to be used only for providing power at the facility during interruption of service from the normal power supplier, periodic maintenance testing, and operational training, and for participation in the Pennsylvania New Jersey Maryland Interconnection, LLC (PJM) Emergency Load Response Program (ELRP). Total combined generator use may not exceed 500 hours per year, calculated monthly as the sum of each consecutive 12-month period. Records shall be kept for the hours of operation and reason for operation including participation in the PJM's ELRP, documentation of a PJM declared emergency, emergency operation, testing of the unit, and/or maintenance.
(9 VAC 5-80-110 and Condition 39 of 9/17/13 NSR Permit)

11. **Fuel Burning Equipment Requirements – (Emission units PG1, PG2, and PG3) – Limitations – Emergency Generator Operation** - The operation of the emergency generators shall meet the definition of an emergency stationary RICE as defined in 40 CFR 63.6675 and the operating hour limitations in 40 CFR 63.6640(f).

    (9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)

12. **Fuel Burning Equipment Requirements – (Emission units PG1, PG2, and PG3) – Limitations - Emergency Generator Operation and Maintenance Practice** –

    The permittee shall meet the following requirements for PG1, PG2, and PG3 as required by 40 CFR 63.6603(a) and Table 2d in 40 CFR 63 Subpart ZZZZ:

    a. Change oil and filter every 500 hours of operation or annually, whichever comes first;

    b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and

    c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

    The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in accordance with 40 CFR 63.6625(i).

    The permittee must operate and maintain PG1, PG2, and PG3 according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR 63.6625(e)).

    The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes (40 CFR 63.6625(h)).

    (9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)

13. **Fuel Burning Equipment Requirements – (Emission units PG1, PG2, and PG3) – Monitoring** - The permittee must install a non-resettable hour meter if one is not already installed for each emergency generator (40 CFR 63.6625(f)).

    (9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)

14. **Fuel Burning Equipment Requirements – (Emission units PG1, PG2, and PG3) - Requirements by Reference (MACT)** - Except where this permit is more restrictive than the applicable requirement, emergency generators PG1, PG2 and PG3 shall be operated in compliance with the requirements of 40 CFR 63, Subpart ZZZZ- National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
Note: All applicable requirements of 40 CFR 63, Subpart ZZZZ may not be specifically listed in this permit. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.
(9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)

15. **Fuel Burning Equipment Requirements – (Emission units RB4 and PH1) - Requirements by Reference (NSPS)** - Except where this permit is more restrictive than the applicable requirement, boiler RB4 and hot water heaters PH1 shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc-Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.
Note: All applicable requirements of 40 CFR 60, Subpart Dc may not be specifically listed in this permit. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110, 9 VAC 5-50-400, and 9 VAC 5-50-410)

Fuel Burning Equipment Requirements Using Poultry Fat – (Emission Units PB1, PB2, PB3, RB1, RB2, RB3, and RB4)

16. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Limitations** - The approved fuel for the units is poultry fat generated as a by-product of the rendering process. A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110 and Condition 31 of 9/17/13 NSR Permit)

17. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Limitations** - The seven boilers, combined, shall consume no more than 9,685,056 gallons of poultry fat per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 32 of 9/17/13 NSR Permit)

18. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Limitations** - The permittee shall sample the poultry fat fuel tank, from which poultry fat is used for boiler fuel, at least once per calendar month when poultry fat is used for boiler fuel. A sample analysis shall be conducted, using EPA approved methods, to determine a Btu value and sulfur content of the poultry fat.

(9 VAC 5-80-110 and Condition 33 of 9/17/13 NSR Permit)

19. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Limitations** - Emissions from the operation of each boiler when operating using poultry fat as fuel shall not exceed the limits specified below:

Units PB1 and PB3, each

Particulate Matter	0.2 lbs/hr
PM-10	0.2 lbs/hr
Sulfur Dioxide	0.03 lbs/hr
Nitrogen Oxides (as NO2)	2.6 lbs/hr
Carbon Monoxide	0.1 lbs/hr
Volatile Organic Compounds	0.03 lbs/hr

Unit PB2

Particulate Matter	0.07 lbs/hr
PM-10	0.07 lbs/hr
Sulfur Dioxide	0.01 lbs/hr
Nitrogen Oxides (as NO2)	1.0 lbs/hr
Carbon Monoxide	0.04 lbs/hr
Volatile Organic Compounds	0.05 lbs/hr

Units RB1, RB2, RB3, and RB4, each

Particulate Matter	0.3 lbs/hr
PM-10	0.3 lbs/hr
Sulfur Dioxide	0.06 lbs/hr
Nitrogen Oxides (as NO2)	5.1 lbs/hr
Carbon Monoxide	0.2 lbs/hr
Volatile Organic Compounds	0.06 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 16, 18, 21, 22, 27, and 33.
(9 VAC 5-80-110 and Condition 35 of 9/17/13 NSR Permit)

20. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Limitations** - Emissions from the operation of all seven boilers (Unit Ref. Nos. RB1, RB2, RB3, RB4, PB1, PB2 and PB3), combined, when operating using poultry fat as fuel shall not exceed the limits specified below, calculated monthly as the sum of each consecutive 12-month period:

Particulate Matter	7.8 tons/yr
PM-10	7.8 tons/yr
Sulfur Dioxide	1.5 tons/yr
Nitrogen Oxides (as NO2)	116.6 tons/yr
Carbon Monoxide	4.5 tons/yr
Volatile Organic Compounds	1.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 16-18, 21, 22, and 33.
(9 VAC 5-80-110 and Condition 36 of 9/17/13 NSR Permit)

21. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Limitations** - Visible emissions from each boiler (Unit Ref. Nos. RB1, RB2, RB3, RB4, PB1, PB2 and PB3) stack when combusting poultry fat shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, or malfunction.

(9 VAC 5-80-110 and Condition 38 of 9/17/13 NSR Permit)

22. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Testing – Stack Test for Initial Compliance Determination** - Initial performance tests shall be conducted, or surrogate test results submitted, for PM, CO and NO_x for each size category of boiler when firing poultry fat to determine compliance with the emission limits contained in Condition 19. The tests shall be performed, or surrogate test results submitted, and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated when firing poultry fat in the boiler but in no event later than 180 days after start-up of using poultry fat in the boilers. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410. The details of the tests are to be arranged with the Director, Tidewater Regional Office (TRO). The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to the TRO within 45 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-110 and Condition 40 of 9/17/13 NSR Permit)

Fuel Burning Equipment Requirements Using Either Fuel Oil or Poultry Fat – (Emission Units PB1, PB2, PB3, RB1, RB2, RB3, and RB4)

23. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Limitations** - Regardless of any other condition in the permit, annual emissions of sulfur dioxide and nitrogen oxides from the operation of all seven boilers (Unit Ref. Nos. RB1, RB2, RB3, RB4, PB1, PB2 and PB3), combined, when operated using either poultry fat or residual oil as fuel shall not exceed the following limits, calculated monthly as the sum of each consecutive 12-month period:

Sulfur Dioxide	466.9 tons/yr
Nitrogen Oxides	116.6 tons/yr

(9 VAC 5-80-110 and Condition 37 of 9/17/13 NSR Permit)

24. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Limitations** - Boiler emissions shall be controlled by proper operation and maintenance of combustion equipment. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boiler. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and Conditions 25 and 34 of 9/17/13 NSR Permit)

25. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Testing** - Upon request by the DEQ, the permittee shall conduct additional performance tests for criteria pollutants from each boiler stack to determine compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Tidewater Regional Office.

(9 VAC 5-80-110 and Condition 41 of 9/17/13 NSR Permit)

26. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Testing** - Upon request by the DEQ, the permittee shall conduct additional visible emissions evaluations from each boiler stack to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Tidewater Regional Office.

(9 VAC 5-80-110 and Condition 42 of 9/17/13 NSR Permit)

27. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Monitoring** - The permittee shall check each boiler stack at least once per calendar month during daylight hours of operations for visible emissions for at least six minutes. If visible emissions are noted from any of the stacks, maintenance shall be performed on the boiler(s) to eliminate the visible emissions. If visible emissions continue after maintenance actions, a visible emissions evaluation (VEE) shall be immediately conducted on each stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for either stack exceeds ten (10) percent, the VEE shall continue for one hour from initiation on each stack. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the boiler back to compliance. Results of observations and/or VEEs shall be recorded in the operation log. Records of observations shall include the following:

    a. The name of the observer,

    b. Date and time of the observation,

    c. An indication of presence or absence of visible emissions,

    d. Whether the emissions are representative of normal operation,

    e. If emissions are not representative of normal operation, the cause of the abnormal emissions,

    f. The duration of any visible emission incident, and any corrective action to eliminate visible emissions, and

    g. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).

    (9 VAC 5-80-110 and Condition 43 of 9/17/13 NSR Permit)

28. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - MACT JJJJJJ Initial Compliance Demonstration- Initial Tune-Up** - The permittee shall conduct the initial tune-up for each of the seven boilers as required by 40 CFR 63.11214 (b), and submit a signed statement in the Notice of Compliance Status report that indicates that you conducted the initial tune-ups no later than March 21, 2014.
    (9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJJ)

29. **Fuel Burning Equipment Requirements – (Emission units PB1, PB3, RB1, RB2, RB3, and RB4) - MACT JJJJJJ Initial Compliance Demonstration - One-time Energy Assessment** - The permittee shall have a one-time energy assessment conducted in accordance with Table 2 of MACT Subpart JJJJJJ by a qualified energy assessor for each of the six boilers as required by 40 CFR 63.11214(c), and submit a signed certification in the Notice of Compliance Status report that indicates that the energy assessment was conducted no later than March 21, 2014. The energy assessment report shall be submitted upon request.
    (9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJJ)

30. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - MACT JJJJJJ Continuing Compliance Demonstration- Biennial Tune-ups** - The permittee shall conduct biennial tune-ups of each of the seven boilers and keep records as required by 40 CFR 63.11223. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up.
(9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJJ)

31. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - MACT JJJJJJ Initial Notification** - The permittee shall submit an initial notification if one has not been sent no later than January 20, 2014 as required by 40 CFR 63.11225(a)(1) and (2). The notification shall contain information specified in 40 CFR 63.9(b)(2) and shall be sent to:

    Associate Director
    Office of Air Enforcement and Compliance Assistance (3AP20)
    U.S. Environmental Protection Agency
    Region III
    1650 Arch Street
    Philadelphia, PA 19103-2029

    (9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJJ)

32. **Fuel Burning Equipment Requirements – Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4 - MACT JJJJJJ Notification of Compliance Status** - The permittee shall submit a Notification of Compliance Status no later than 120 days after the compliance date of March 21, 2014, as required by 40 CFR 63.11225(a)(4). The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the address in Condition 31.
(9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJJ)

33. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:

    a. Daily throughput of residual oil for boiler RB4.

    b. Annual throughput of low-sulfur residual oil (0.5% sulfur content), and high-sulfur residual oil (2.0% sulfur content), each calculated monthly as the sum of each consecutive 12-month period.

    c. All fuel supplier certifications.

d. Annual number of operating hours for emergency generator PG1, calculated monthly as the sum of each consecutive 12-month period.

e. The hours of operation of the emergency generators PG1, PG2, and PG3, as recorded through the non-resettable hour meters, including the hours spent for emergency operation and the hours spent on non-emergency operation, and documentation for emergency operation, as required by MACT Subpart ZZZZ at 40 CFR 63.6655(f).

f. Records of maintenance practice for the emergency generators PG1, PG2, and PG3, as required by MACT Subpart ZZZZ at 40 CFR 63.6655(e).

g. Annual throughput of poultry fat for the boilers, calculated monthly as the sum of each consecutive 12-month period.

h. All poultry fat sample analyses.

i. Emission factors from stack tests of boilers firing poultry fat to verify compliance with emission limitations.

j. Stack tests results.

k. Visible emission observations and visible emissions evaluations (Method 9, 40 CFR 60 Appendix A).

l. Calculation of actual annual sulfur dioxide emissions and nitrogen oxide emissions for all fuels combusted by the boilers. The calculation shall be the sum of each consecutive 12-month period.

m. Semi-annual fuel quality reports.

n. Scheduled and unscheduled maintenance and operator training.

o. Records of Initial Notifications, Notifications of Compliance Status, initial tune-up, and biennial tune-ups for each of the boilers PB1, PB2, PB3, RB1, RB2, RB3, and RB4, as required by MACT Subpart JJJJJJ.

p. Records of one-time energy assessment for each of the boilers PB1, PB3, RB1, RB2, RB3, and RB4, as required by MACT Subpart JJJJJJ.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110, Condition 45 of 9/17/13 NSR Permit, MACT Subpart ZZZZ, and MACT Subpart JJJJJJ)

34. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) – Recordkeeping** - The permittee shall maintain and have available a listing of the names, addresses and phone numbers of the persons who are accountable for the daily operations of the plant. A log shall be kept showing the dates and times that the equipment is down for repairs. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

    (9 VAC 5-80-110 and Condition 46 of 9/17/13 NSR Permit)

35. **Fuel Burning Equipment Requirements – (Emission units PB1, PB2, PB3, RB1, RB2, RB3, and RB4) - Requirements by Reference (MACT)** - Except where this permit is more restrictive than the applicable requirement, boilers PB1, PB2, PB3, RB1, RB2, RB3, and RB4 shall be operated in compliance with the requirements of 40 CFR 63, Subpart JJJJJJ- National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.
    Note: All applicable requirements of 40 CFR 63, Subpart JJJJJJ may not be specifically listed in this permit. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

    (9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJJ)

Rendering Process Equipment Requirements – (All emission units other than fuel burning equipment)

36. **Rendering Process Equipment Requirements – Limitations – Emission Controls** - Emissions with low intensity odor from room air of the following meat and fat rendering process equipment shall be controlled by the meat side 100,000 cfm packed bed scrubber (CE-03) that uses water and ClO2, or an equivalent solution as approved by DEQ:

    Cooker feed bins RE-01 and 02

    Metal detector RE-03

    Rotor drum RE-05

    Fat Sweco Screen RE-19

    The control equipment shall be provided with adequate access for inspection, and shall be in operation when the rendering plant is operating.
    (9 VAC 5-80-110 and Condition 3 of 9/17/13 NSR Permit)

37. **Rendering Process Equipment Requirements – Limitations – Emission Controls** – Emissions with high intensity odor from the following meat and fat rendering process equipment shall be controlled by the meat side scrubber system (CE-01/CE-02/CE-03):

    Steam preheater RE-04

    Twin screw press RE-06

Pet food cooker RE-07, via cyclone RE-07A and condenser RE-07B

Meat Cooker cyclone RE-07A, via condenser RE-07B

Meat Cooker condenser RE-07B

Perculator RE-08

Expeller presses RE-09 and 10

Hammermill RE-11

Rotex screens RE-12 A-C via aspirator RE-12D

Fat centrifuge Feed tank (RE-20)

Fat centrifuge (RE-21)

Inside fat storage (RE-22)

Waste heat evaporator (RE-27), via condenser RE-07B

Scrubber liquid for venturi scrubber CE-01 is water.

Scrubber liquid for packed bed scrubbers CE-02 and CE-03 is water and ClO2, or an equivalent solution as approved by DEQ.

The control equipment shall be provided with adequate access for inspection, and shall be in operation when the rendering plant is operating.

(9 VAC 5-80-110 and Condition 4 of 9/17/13 NSR Permit)

38. **Rendering Process Equipment Requirements – Limitations – Emission Controls** – Emissions with low intensity odor from room air of the following feather and blood rendering process equipment shall be controlled by the feather side 100,000 cfm packed bed scrubber (CE-04) that uses water and ClO2, or an equivalent solution as approved by DEQ:

Raw feather dump RE-29

Feather cookers RE-30-32 and RE-50-51

Feather dump pan RE-36

Rotex screen RE-37

Rotex screen RE-40

Hammermill RE-41

Blood receiving tank RE-44

Coagulator RE-45

The control equipment shall be provided with adequate access for inspection, and shall be in operation when the rendering plant is operating.

(9 VAC 5-80-110 and Condition 5 of 9/17/13 NSR Permit)

39. **Rendering Process Equipment Requirements – Limitations – Emission Controls -** Emissions with high intensity odor from the following feather and blood rendering process equipment shall be controlled by the meat side scrubber system (CE-01/CE-02/CE-03):

    Feather cookers RE-30-32 and RE-50-51, via the hydrolyser cyclone RE-47 and feather condenser RE-49

    Feather dryers RE-38 and 39, via feather cyclones RE-38 A and 39B, and feather condenser RE-49

    Feather cyclones RE-38A and 39B, via feather condenser RE-49

    Blood coagulator RE-45, via feather condenser RE-49

    Blood centrifuge (RE-46), via feather condenser RE-49

    Feather condenser RE-49

    Scrubber liquid for venturi scrubber CE-01 is water.

    Scrubber liquid for packed bed scrubbers CE-02 and CE-03 is water and ClO2, or an equivalent solution as approved by DEQ.

    The control equipment shall be provided with adequate access for inspection, and shall be in operation when the rendering plant is operating.

    (9 VAC 5-80-110 and Condition 6 of 9/17/13 NSR Permit)

40. **Rendering Process Equipment Requirements – Limitations - Replaced Equipment -** The existing three cookers RE-33-35 shall be either removed or permanently shut down, and replaced by two cookers RE-50-51. Reactivation of cookers RE-33-35 may require a permit. (9 VAC 5-80-110 and Condition 11 of 9/17/13 NSR Permit)

41. **Rendering Process Equipment Requirements – Limitations – Throughput -** The throughput of raw material of poultry offal (meat and fat), feather or blood rendered shall not exceed 388,000 tons per year from all sources, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

    (9 VAC 5-80-110 and Condition 12 of 9/17/13 NSR Permit)

42. **Rendering Process Equipment Requirements – Limitations – Production -** The production of poultry meat meal shall not exceed 45,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

    (9 VAC 5-80-110 and Condition 13 of 9/17/13 NSR Permit)

43. **Rendering Process Equipment Requirements – Limitations – Production** - The production of feather meal shall not exceed 35,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

    (9 VAC 5-80-110 and Condition 14 of 9/17/13 NSR Permit)

44. **Rendering Process Equipment Requirements – Limitations** - Emissions from the meat side 100,000 cfm packed bed scrubber stack (EP-TP-CE-03) shall not exceed the limits specified below:

Particulate Matter (PM)	7.2 tons/yr
PM-10	4.2 tons/yr
PM-2.5	1.5 tons/yr
Volatile Organic Compounds	10.6 tons/yr

    These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 36, 37, 39, 41-43, 48-51, and 62.

    (9 VAC 5-80-110 and Condition 15 of 9/17/13 NSR Permit)

45. **Rendering Process Equipment Requirements – Limitations** - Emissions from the feather side 100,000 cfm packed bed scrubber stack (EP-TP-CE-04) shall not exceed the limits specified below:

Particulate Matter (PM)	3.1 tons/yr
PM-10	2.3 tons/yr
PM-2.5	1.1 tons/yr

    These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 38, 41, 43, 48, 50, 51, and 62.

    (9 VAC 5-80-110 and Condition 16 of 9/17/13 NSR Permit)

46. **Rendering Process Equipment Requirements – Limitations** - Total emissions from the rendering operation shall not exceed the limits specified below:

Particulate Matter (PM)	11.1 tons/yr
PM-10	6.7 tons/yr
PM-2.5	2.5 tons/yr
Volatile Organic Compounds	10.6 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 36-39, 41-43, 48-51, and 62.

(9 VAC 5-80-110 and Condition 17 of 9/17/13 NSR Permit)

47. **Rendering Process Equipment Requirements – Limitations** - Rendering process emissions shall be controlled by proper operation and maintenance of air pollution control equipment. Rendering plant operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for all rendering plant process equipment and air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and Condition 18 of 9/17/13 NSR Permit)

48. **Rendering Process Equipment Requirements – Monitoring Devices (Scrubbers CE-01, CE-02, CE-03, and CE-04)** - Each of the scrubbers (CE-01, CE-02, CE-03, and CE-04) shall be equipped with devices to continuously measure the recycle liquid flow rate and the differential pressure across the scrubber. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the scrubber is operating.

(9 VAC 5-80-110 and Condition 7 of 9/17/13 NSR Permit)

49. **Rendering Process Equipment Requirements – Monitoring Devices (Scrubbers CE-01, CE-02, and CE-03)** - Each of the scrubbers (CE-01, CE-02, and CE-03) shall be equipped with a continuous recorder system and the high/low level alarm for the recycle liquid flow rate. The continuous data recorder system and the high/low level alarm shall be installed and in operation by March 1, 2014. Each monitoring device shall be installed, maintained, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the scrubber is operating.

(9 VAC 5-80-110 and Condition 8 of 9/17/13 NSR Permit)

50. **Rendering Process Equipment Requirements - Monitoring Device Observations (Scrubbers CE-01, CE-02, CE-03, and CE-04)** - To ensure good performance, the monitoring devices used to continuously measure the differential pressure across each of the scrubbers (CE-01, CE-02, CE-03, and CE-04) shall be observed by the permittee with a frequency of at least once per shift. The permittee shall keep a log of the monitoring device observations.

(9 VAC 5-80-110 and Condition 9 of 9/17/13 NSR Permit)

51. **Rendering Process Equipment Requirements - Monitoring Device Observations (Scrubbers CE-01, CE-02, CE-03, and CE-04)** - To ensure good performance, the monitoring device used to continuously measure the recycle liquid flow rate for the packed bed scrubber CE-04 shall be observed by the permittee with a frequency of at least once per shift. The same applies to monitoring devices used to continuously measure the recycle liquid flow rate for the scrubbers CE-01, CE-02 and CE-03 in the interim until their continuous data recorder systems and the high/low level alarms are in operation as required in Condition 49. The permittee shall keep a log of the monitoring device observations.

    (9 VAC 5-80-110 and Condition 10 of 9/17/13 NSR Permit)

52. **Rendering Process Equipment Requirements – (Venturi Scrubber CE-01) - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the venturi scrubber CE-01 according to the following:

Venturi Scrubber CE-01	**Indicator 1** **Recycle Liquid Flow Rate through the scrubber**	**Indicator 2** **Pressure drop across the scrubber throat**
Measurement Approach	Flow rate is measured by a magnetic flow meter in gallons per minute (gpm).	Pressure drop is measured with a pressure gauge of appropriate range across the scrubber throat in inches of water (in. w.c.)
Indicator Range	80-100 gpm An alarm will trigger when the 5-minute rolling average flow rate is ±30% out of range: below 56 gpm or above 130 gpm. An excursion is defined as a 3-hour block average recycle liquid flow rate ±50% out of range: below 40 gpm or above 150 gpm. Alarms also sound when excursions occur. Alarms require an inspection and corrective action. Excursions require an inspection, corrective action, and a reporting requirement. Note that when all three flow rates from CE-01, CE-02 and CE-03 simultaneously read "0 (zero)" because the rendering process is not operating (such as when shutdown at night, weekend, during cleaning or power outage), the alarms will not be activated. The event will be noted in the manual logs but will not count towards "excursions".	4-8 in. w.c. Upon manual log of reading, if the parameter is outside the range, corrective action will be taken immediately. An excursion is defined as a daily average differential pressure reading that is ±50% out of range: below 2 in. w.c. or above 12 in. w.c. Excursions trigger an inspection, corrective action, and a reporting requirement.
Performance Criteria A. Data Representativeness	The flow meter is designed to operate at ±0.5% uncertainty (includes linearity, repeatability and accuracy). The recorder will operate at ±0.1%.	Pressure taps are located on the scrubber to measure the relative change of pressure across the venturi scrubber throat.

Venturi Scrubber CE-01	Indicator 1 Recycle Liquid Flow Rate through the scrubber	Indicator 2 Pressure drop across the scrubber throat
B. QA/QC Practices	The flow meter is calibrated annually per manufacturer's recommendations for continual maintenance and operation.	Pressure gauges are replaced as needed or upon the gauge not re-zeroing after manual read. Gauge operation is per manufacturer's recommendations.
C. Monitoring Frequency	The recycle liquid flow rate will be monitored and recorded continuously.	Differential pressure is monitored continuously with a fixed gauge system.
Data Collection Procedure	Recorder takes 1 reading per minute.	Readings are manually recorded once per shift.
Averaging Period	5-minute rolling average and 3-hour block average.	Daily from manual recordings.
D. Maintenance and recordkeeping	Scrubber shall be maintained and operated per manufacturer's specifications. All records of normal, abnormal, or malfunctions of operation and/or maintenance shall be maintained.	Scrubber shall be maintained and operated per manufacturer's specifications. All records of normal, abnormal, or malfunctions of operation and/or maintenance shall be maintained.

(9 VAC 5-80-110 E and 40 CFR 64.6 (c))

53. **Rendering Process Equipment Requirements – (Packed Bed Scrubber CE-02) - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the packed bed scrubber CE-02 according to the following:

Packed Bed Scrubber CE-02	Indicator 1 Recycle Liquid Flow Rate through the scrubber	Indicator 2 Pressure drop across the scrubber throat
Measurement Approach	Flow rate is measured by a magnetic flow meter in gallons per minute (gpm).	Pressure drop is measured with a pressure gauge of appropriate range across the scrubber throat in inches of water (in. w.c.)
Indicator Range	250-300 gpm An alarm will trigger when the 5-minute rolling average flow rate is ±30% out of range: below 175gpm or above 390 gpm. An excursion is defined as a 3-hour block average recycle liquid flow rate ±50% out of range: below 125 gpm or above 450 gpm. Alarms also sound when excursions occur. Alarms require an inspection and corrective action. Excursions require an inspection, corrective action, and a reporting requirement.	2-7 in. w.c. Upon manual log of reading, if the parameter is outside the range, corrective action will be taken immediately. An excursion is defined as a daily average differential pressure reading that is ±50% out of range: below 1 in. w.c. or above 10.5 in. w.c. Excursions trigger an inspection, corrective action, and a reporting requirement.

Packed Bed Scrubber CE-02	**Indicator 1** **Recycle Liquid Flow Rate through the scrubber**	**Indicator 2** **Pressure drop across the scrubber throat**
	Note that when all three flow rates from CE-01, CE-02 and CE-03 simultaneously read "0 (zero)" because the rendering process is not operating (such as when shutdown at night, weekend, during cleaning or power outage), the alarms will not be activated. The event will be noted in the manual logs but will not count towards "excursions".	
Performance Criteria		
A. Data Representativeness	The flow meter is designed to operate at ±0.5% uncertainty (includes linearity, repeatability and accuracy). The recorder will operate at ±0.1%.	Pressure taps are located on the scrubber to measure the relative change of pressure across the venturi scrubber throat.
B. QA/QC Practices	The flow meter is calibrated annually per manufacturer's recommendations for continual maintenance and operation.	Pressure gauges are replaced as needed or upon the gauge not re-zeroing after manual read. Gauge operation is per manufacturer's recommendations.
C. Monitoring Frequency	The recycle liquid flow rate will be monitored and recorded continuously.	Differential pressure is monitored continuously with a fixed gauge system.
Data Collection Procedure	Recorder takes a reading 1 per minute.	Readings are manually recorded once per shift.
Averaging Period	5-minute rolling average and 3-hour block average.	Daily from manual recordings.
D. Maintenance and recordkeeping	Scrubber shall be maintained and operated per manufacturer's specifications. All records of normal, abnormal, or malfunctions of operation and/or maintenance shall be maintained.	Scrubber shall be maintained and operated per manufacturer's specifications. All records of normal, abnormal, or malfunctions of operation and/or maintenance shall be maintained.

(9 VAC 5-80-110 E and 40 CFR 64.6 (c))

54. **Rendering Process Equipment Requirements – (Packed Bed Scrubber CE-03) - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the packed bed scrubber CE-03 according to the following:

Packed Bed Scrubber CE-03	**Indicator 1** **Recycle Liquid Flow Rate through the scrubber**	**Indicator 2** **Pressure drop across the scrubber throat**
Measurement Approach	Flow rate is measured by a magnetic flow meter in gallons per minute (gpm).	Pressure drop is measured with a pressure gauge of appropriate range across the scrubber throat in inches of water (in. w.c.)
Indicator Range	800-1,000 gpm An alarm will trigger when the 5-minute rolling average flow rate is ±30% out of range: below 560 gpm or above 1,300 gpm. An excursion is defined as a 3-hour block average recycle liquid flow rate ±50% out of range: below 400 gpm or above 1,500 gpm. Alarms also sound when excursions occur. Alarms require an inspection and corrective action. Excursions require an inspection, corrective action, and a reporting requirement. Note that when all three flow rates from CE-01, CE-02 and CE-03 simultaneously read "0 (zero)" because the rendering process is not operating (such as when shutdown at night, weekend, during cleaning or power outage), the alarms will not be activated. The event will be noted in the manual logs but will not count towards "excursions".	4-7 in. w.c. Upon manual log of reading, if the parameter is outside the range, corrective action will be taken immediately. An excursion is defined as a daily average differential pressure reading that is ±50% out of range: below 2 in. w.c. or above 10.5 in. w.c. Excursions trigger an inspection, corrective action, and a reporting requirement.
Performance Criteria		
A. Data Representativeness	The flow meter is designed to operate at ±0.5% uncertainty (includes linearity, repeatability and accuracy). The recorder will operate at ±0.1%.	Pressure taps are located on the scrubber to measure the relative change of pressure across the venturi scrubber throat.
B. QA/QC Practices	The flow meter is calibrated annually per manufacturer's recommendations for continual maintenance and operation.	Pressure gauges are replaced as needed or upon the gauge not re-zeroing after manual read. Gauge operation is per manufacturer's recommendations.
C. Monitoring Frequency	The recycle liquid flow rate will be monitored and recorded continuously.	Differential pressure is monitored continuously with a fixed gauge system.

Packed Bed Scrubber CE-03	Indicator 1 Recycle Liquid Flow Rate through the scrubber	Indicator 2 Pressure drop across the scrubber throat
Data Collection Procedure	Recorder takes a reading 1 per minute.	Readings are manually recorded once per shift.
Averaging Period	5-minute rolling average and 3-hour block average.	Daily from manual recordings.
D. Maintenance and recordkeeping	Scrubber shall be maintained and operated per manufacturer's specifications. All records of normal, abnormal, or malfunctions of operation and/or maintenance shall be maintained.	Scrubber shall be maintained and operated per manufacturer's specifications. All records of normal, abnormal, or malfunctions of operation and/or maintenance shall be maintained.

(9 VAC 5-80-110 E and 40 CFR 64.6 (c))

55. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
(9 VAC 5-80-110 E and 40 CFR 64.6 (c))

56. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(9 VAC 5-80-110 E and 40 CFR 64.7 (b))

57. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the rendering process equipment is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.

(9 VAC 5-80-110 E and 40 CFR 64.7 (c))

58. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the rendering equipment (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.

    (9 VAC 5-80-110 E and 40 CFR 64.7 (d)(1))

59. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

    (9 VAC 5-80-110 E and 40 CFR 64.7(d)(2))

60. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Tidewater Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

    (9 VAC 5-80-110 E and 40 CFR 64.7(e))

61. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM)** - If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the rendering process equipment for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:

a. Improved preventative maintenance practices;

b. Process operation changes;

c. Appropriate improvements to control methods;

d. Other steps appropriate to correct control performance; and

e. More frequent or improved monitoring.

(9 VAC 5-80-110 E and 40 CFR 64.8(a) and (b))

62. **Rendering Process Equipment Requirements – Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:

a. Monitoring device observation records of differential pressure across each of the scrubbers CE-01, CE-02, CE-03, and CE-04.

b. Monitoring device observation records of recycle liquid flow rate for packed bed scrubber CE-04, and for scrubbers CE-01, CE-02, and CE-03 in the interim until their continuous data recorder systems are in operation.

c. Continuous monitoring records of recycle liquid flow rate for scrubbers CE-01, CE-02, and CE-03.

d. Annual throughput of poultry offal, feather and blood rendered, calculated monthly as the sum of each consecutive 12-month period.

e. Annual production of poultry meat meal, calculated monthly as the sum of each consecutive 12-month period.

f. Annual production of feather meal, calculated monthly as the sum of each consecutive 12-month period.

g. Records of corrective actions, scheduled and unscheduled maintenance and operator training for air pollution control devices.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 19 of 9/17/13 NSR permit)

63. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM) Recordkeeping** - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

    (9 VAC 5-80-110 E and 40 CFR 64.9(b))

64. **Rendering Process Equipment Requirements – (Scrubbers CE-01, CE-02 and CE-03) - Compliance Assurance Monitoring (CAM) Reporting** - The permittee shall submit CAM reports as part of the Title V semi-annual monitoring reports required by General Condition 80 of this permit to the Director, Tidewater Regional Office. Such reports shall include at a minimum:

    a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

    b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

    c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

    (9 VAC 5-80-110 F and 40 CFR 64.9(a))

65. **Rendering Process Equipment Requirements - Initial Notifications** - The permittee shall furnish written notification to the Tidewater Regional Office of:

    a. The actual date on which construction of the new cookers RE-50 and RE-51 commenced within 30 days after such date.

    b. The actual start-up date of the new cookers RE-50 and RE-51 within 15 days after such date.

    c. The actual start-up date of the continuous data recorder systems and the high/low alarms for scrubbers CE-01, CE-02, and CE-03 within 15 days after such date.

    (9 VAC 5-80-110 and Condition 20 of 9/17/13 NSR Permit)

Facility- Wide Conditions

66. **Facility Wide Conditions – Testing/Monitoring Ports** - The permitted facility shall be constructed so as to allow for emission testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stacks or ducts free from cyclonic flow. Test ports shall be provided when requested at the appropriate locations **or** in accordance with the applicable performance specifications (reference 40 CFR Part 60, Appendix B).

    (9 VAC 5-80-110 and Condition 44 of 9/17/13 NSR Permit)

67. **Facility Wide Conditions - Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

    (9 VAC 5-80-110)

68. **Facility Wide Conditions - Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

    (9 VAC 5-80-110 and Condition 53 of 9/17/13 NSR Permit)

Insignificant Emission Units

69. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
SC1	Used oil tank, 1,000 gallons	9 VAC 5-80-720 B	VOC, HAPs	
SC2	Unleaded gasoline tank, 275 gallons	9 VAC 5-80-720 B	VOC, HAPs	
SC3	Diesel fuel tank, 15,000 gallons	9 VAC 5-80-720 B	VOC, HAPs	
TP1	No. 6 fuel oil tank, 12,000 gallons	9 VAC 5-80-720 B	VOC, HAPs	
TP2	Unleaded gasoline tank, 500 gallons	9 VAC 5-80-720 B	VOC, HAPs	
FP1	Diesel fuel tank, 120 gallons	9 VAC 5-80-720 B	VOC, HAPs	
1RT	No. 6 fuel oil tank, 25,000 gallons	9 VAC 5-80-720 B	VOC, HAPs	
2RT	No. 6 fuel oil tank, 25,000 gallons	9 VAC 5-80-720 B	VOC, HAPs	
3RT	Poultry fat tank, 20,000 gallons	9 VAC 5-80-720 A		
4RT	Poultry fat tank, 20,000 gallons	9 VAC 5-80-720 A		
5RT	Poultry fat tank, 25,000 gallons	9 VAC 5-80-720 A		
6RT	Poultry fat tank, 25,000 gallons	9 VAC 5-80-720 A		
HAT1	Diesel fuel, 10,000 gallons	9 VAC 5-80-720 B	VOC, HAPs	

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

70. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
9 VAC 5-40-880 et seq., Part II, Article 8	Emissions Standards for Fuel Burning Equipment	Boilers PB1, PB2, and PB3 were installed prior to 1972. However, they are not subject to the PM and SO_2 emission standards of Article 8 because they are already subject to the more stringent requirements of the facility's NSR permits as they developed over time, beginning with the 11/08/93 NSR.
40 CFR 60, Subpart Kb, as amended.	NSPS for Volatile Organic Liquid Storage Vessels Constructed, Modified, or Reconstructed After July 23, 1984	Facility's tanks are either less than the threshold for Kb applicability (19,817 gallons) or store liquids that have maximum true vapor pressure less than 2.16 psi. Hence, they are not subject to NSPS Subpart Kb.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

General Conditions

71. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

72. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

    (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

73. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

    (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

74. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

    (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

75. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.

    (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

76. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

    (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

77. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

    (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

78. **General Conditions - Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

    a. The date, place as defined in the permit, and time of sampling or measurements.

    b. The date(s) analyses were performed.

    c. The company or entity that performed the analyses.

    d. The analytical techniques or methods used.

    e. The results of such analyses.

    f. The operating conditions existing at the time of sampling or measurement.

    (9 VAC 5-80-110 F)

79. **General Conditions - Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

    (9 VAC 5-80-110 F)

80. **General Conditions - Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

    a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

    b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

        (1) Exceedance of emissions limitations or operational restrictions;

        (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,

        (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

81. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

a. The time period included in the certification. The time period to be addressed is January 1 to December 31.

b. The identification of each term or condition of the permit that is the basis of the certification.

c. The compliance status.

d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.

f. Such other facts as the permit may require to determine the compliance status of the source.

g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

82. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Tidewater Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are

not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 80 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

83. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Tidewater Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.

(9 VAC 5-20-180 C)

84. **General Conditions - Failure/Malfunction Reporting** - The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the 14 day written notification.

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

85. **General Conditions - Failure/Malfunction Reporting** - The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are listed below:

a. Venturi scrubber CE-01.

b. Packed bed scrubbers CE-02, CE-03, and CE-04.

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

86. **General Conditions - Failure/Malfunction Reporting** - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9 VAC 5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the board semiannually. All semi-annual reports shall be postmarked by the 30th day following the end of each calendar semi-annual period (June 30th and January 30th). All reports shall include the following information:

a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B.6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

e. All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within 14 days of the discovery of the malfunction.

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

87. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

88. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

89. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

90. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

(9 VAC 5-80-190 and 9 VAC 5-80-260)

91. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.

    (9 VAC 5-80-110 G.5)

92. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.

    (9 VAC 5-80-110 G.6)

93. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

    (9 VAC 5-80-110 K.1)

94. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

    (9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

95. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

    b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

    c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

96. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)

97. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

98. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

99. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

    a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

    b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

    c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

    (9 VAC 5-80-110 L)

100. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

    (9 VAC 5-80-150 E)

101. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

    (9 VAC 5-80-160)

102. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

    (9 VAC 5-80-160)

103. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

    (9 VAC 5-80-160)

104. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of Condition 105 are met.

(9 VAC 5-80-250)

105. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

b. The permitted facility was at the time being properly operated.

c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

(9 VAC 5-80-250)

106. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.

(9 VAC 5-80-250)

107. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

108. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

109. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

110. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

111. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-490 A)

112. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

113. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

114. **State-Only Enforceable Requirements – Limitations - Standards for Odor**- The facility is subject to the Emission Standards for Odor in 9 VAC 5-40-130 et seq. (Rule 4-2), and the Standards of Performance for Odorous Emissions in 9 VAC 5-50-130 et seq. (Rule 5-2).

(9 VAC 5-80-110 N and 9 VAC 5-80-300)

115. **State-Only Enforceable Requirements – Limitations - Odor Control** - In addition to the scrubbers (CE-01, 02, 03, and 04), odor emissions from the rendering plant operations shall be controlled by proper operation and maintenance of the rendering plant. The rendering plant shall be provided with adequate access for inspection.

(9 VAC 5-80-110 N and Condition 56 of 9/17/13 NSR Permit)

116. **State-Only Enforceable Requirements – Limitations - Odor Control** - All exterior doors for the rendering process areas shall be equipped with automatic closure devices (except for overhead roll-up doors). The permittee shall regularly monitor doors that are open for make-up air to ensure some negative pressure so that no odors escape. Monitoring for the negative pressure shall be conducted on a monthly basis, during normal operating conditions. The permittee shall keep a log of negative pressure checks.

(9 VAC 5-80-110 N and Condition 57 of 9/17/13 NSR Permit)

117. **State-Only Enforceable Requirements – Limitations - Odor Control** - All material received at the rendering plant shall be processed or hauled away before it has decomposed to the extent that it causes objectionable odors.

(9 VAC 5-80-110 N and Condition 58 of 9/17/13 NSR Permit)

118. **State-Only Enforceable Requirements – Limitations - Odor Control** - Each loaded truck shall be covered with tarp until it is unloaded. The staging and load-out areas must be paved and coated with nonporous material which is easy to clean. The staging and load-out areas must be cleaned within four hours of any spillage. Wastewater from the clean-up shall be directed to the sewer system.

(9 VAC 5-80-110 N and Condition 59 of 9/17/13 NSR Permit)

119. **State-Only Enforceable Requirements – Limitations - Odor Control** - Each truck shall be washed promptly after being emptied. Wastewater from the clean-up shall be directed to the sewer system.

(9 VAC 5-80-110 N and Condition 60 of 9/17/13 NSR Permit)

120. **State-Only Enforceable Requirements – Limitations - Odor Control** - Truck transit areas around the rendering plant shall be paved with a non-porous material to avoid malodorous contamination and shall be kept in a clean condition.

(9 VAC 5-80-110 N and Condition 61 of 9/17/13 NSR Permit)

121. **State-Only Enforceable Requirements – Limitations - Odor Control** - There shall be no ponded water outside of the rendering plant.

(9 VAC 5-80-110 N and Condition 62 of 9/17/13 NSR Permit)

122. **State-Only Enforceable Requirements – Limitations - Odor Control** - All spilled finished product shall be cleaned up promptly.

(9 VAC 5-80-110 N and Condition 63 of 9/17/13 NSR Permit)

123. **State-Only Enforceable Requirements - Emergency Odor Response Plan** - The permittee shall prepare a plan to prevent, detect and correct malfunctions that cause excessive odor emissions. The plan shall include all of the following:

a. A complete preventative maintenance program, including identification of the supervisory personnel responsible for overseeing the inspection, maintenance and repair of the processing equipment and pollution control equipment. The plan shall also include a description of the items or conditions that shall be inspected, the frequencies of inspections, maintenance and repairs, and an identification of the major replacement parts that shall be retained in inventory for quick replacement; and

b. A description of the source and the air-cleaning device operating parameters that shall be monitored to detect a malfunction; the normal operating range for these parameters, and a narrative of the standard operating procedures for this device.

(9 VAC 5-80-110 N and Condition 64 of 9/17/13 NSR Permit)

124. **State-Only Enforceable Requirements - Emergency Odor Response Plan** - The permittee shall develop and maintain onsite an Emergency Odor Response Plan to describe activities necessary to prevent excess odor incidents as much as possible and promptly control and eliminate the excess odor emissions during unavoidable incidents. These activities shall include, but are not limited to, diversion of on-site material to other facilities and/or refusal of off-site material. The plan shall also establish criteria for when to terminate processing and how to handle unprocessed material inside the rendering area.

(9 VAC 5-80-110 N and Condition 65 of 9/17/13 NSR Permit)

125. **State-Only Enforceable Requirements - Excessive Odor Requirements** - The permittee shall keep a log of odor complaints received and corrective actions taken. If DEQ investigates an odor complaint and determines that excessive odor does exist, the DEQ may require that the raw materials no longer be fed to the process causing the odor. The remaining raw materials for this process and any incoming raw materials shall be diverted to another plant site until the problem is corrected.

(9 VAC 5-80-110 N and Condition 66 of 9/17/13 NSR Permit)

126. **State-Only Enforceable Requirements - Monitoring Device for Odor Control (CE-02, CE-03, and CE-04)** - Each of the packed bed scrubbers CE-02, CE-03, and CE-04 shall be equipped with devices to continuously measure the scrubbing liquid oxidation-reduction potential (ORP). Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the scrubber is operating.
(9 VAC 5-80-110 N and Condition 67 of 9/17/13 NSR Permit)

127. **State-Only Enforceable Requirements - Monitoring Device Observations for Odor Control (CE-02, CE-03, and CE-04)** - To ensure good performance for the packed bed scrubbers (CE-02, CE-03, and CE-04) in odor control, the monitoring device used to measure the scrubbing liquid oxidation-reduction potential (ORP) shall be observed by the permittee with a frequency of at least once per shift. The permittee shall keep a log of the observations.

(9 VAC 5-80-110 N and Condition 68 of 9/17/13 NSR Permit)

128. **State-Only Enforceable Requirements – Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

a. Records of negative pressure checks.

b. Records of odor complaints that the permittee received and corrective actions taken.

c. Emergency Odor Response Plan.

d. Monitoring device observation records of the scrubbing liquid oxidation-reduction potential (ORP).

(9 VAC 5-80-110 N and Condition 69 of 9/17/13 NSR Permit)

SOURCE TESTING REPORT FORMAT

Report Cover
- Plant name and location
- Units tested at source (indicate Ref. No. used by source in permit or registration)
- Test Dates
- Tester; name, address and report date

Certification
- Signed by team leader/certified observer (include certification date)
- Signed by responsible company official
- *Signed by reviewer

Copy of approved test protocol

Summary
- Reason for testing
- Test dates
- Identification of unit tested & the maximum rated capacity
- *For each emission unit, a table showing:
  - Operating rate
  - Test Methods
  - Pollutants tested
  - Test results for each run and the run average
  - Pollutant standard or limit
- Summarized process and control equipment data for each run and the average, as required by the test protocol
- A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results
- Any other important information

Source Operation
- Description of process and control devices
- Process and control equipment flow diagram
- Sampling port location and dimensioned cross section Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions

Test Results
- Detailed test results for each run
- *Sample calculations
- *Description of collected samples, to include audits when applicable

Appendix
- *Raw production data
- *Raw field data
- *Laboratory reports
- *Chain of custody records for lab samples
- *Calibration procedures and results
- Project participants and titles
- Observers' names (industry and agency)
- Related correspondence
- Standard procedures

* Not applicable to visible emission evaluations